TA-E901

US Model
AEP Model
UK Model

STEREO PREAMPLIFIER

SPECIFICATIONS

Power Requirements: US and Canadian models : 120 V ac, 60 Hz, 27 watts
AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50 Hz, 35 watts
UK model : 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50 Hz, 35 watts

AC Outlets (only for the US and Canadian models):
SWITCHED (450 watts capacity)
UNSWITCHED (450 watts capacity)

Dimensions: Approx. 480(w)x105(h)x465(d)mm 19(w)x4 1/4 (h)x13 3/8 (d) inches

Weight: Approx. 12.5 kg, 27 lbs 9 oz, net
Approx. 13.9 kg 30 lbs 11 oz, in shipping carton

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®

SERVICE MANUAL

System:

Head amplifier
Complementary-symmetry diffential amplifier with no NFB loop
Equalizer amplifier and Flat amplifier
1st: Bootstrapped cascode differential
2nd: Cascode differential amplifier
Output: Darlington emitter-follower single ended push output (equalizer amp : NF type)

Inputs:

		Sensitivity	Impedance	Maximum input level (1 kHz)	S/N (A network)
PHONO 1	MM	2.5 mV	50 kΩ	180 mV	84 dB, 80 dB*
PHONO 2	MC	0.125 mV	200 Ω	9 mV	72 dB, 70 dB*
TUNER, AUX 1, 2 TAPE 1, 2		150 mV	50 kΩ	12 V	102 dB, 88 dB*

*: 1978 IHF

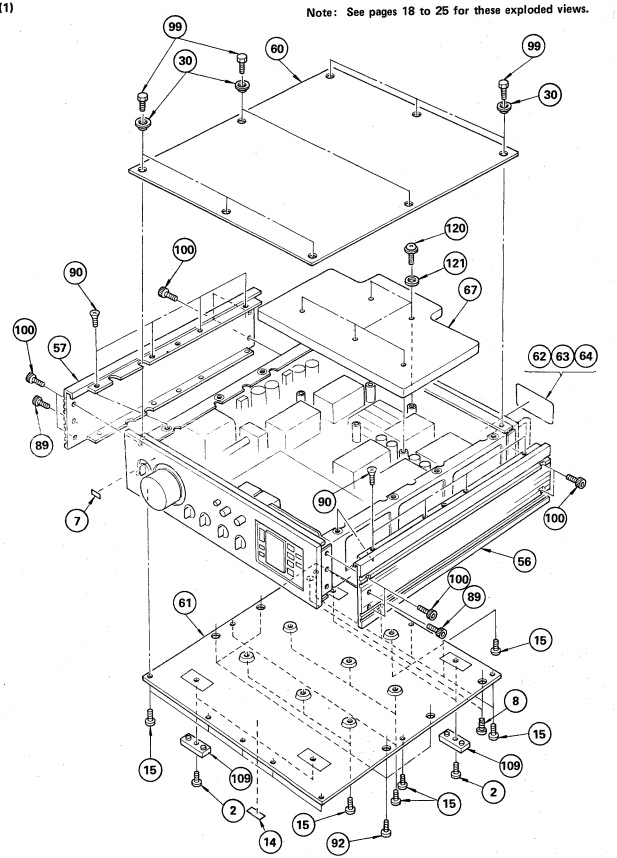
Outputs:

	Voltage	Impedance
REC OUT 1, 2	150 mV (max. 12 V)	1 kΩ
OUTPUT 1, 2	1.5 V (max. 12 V)	100 Ω
HEADPHONES	670 mV	10 Ω

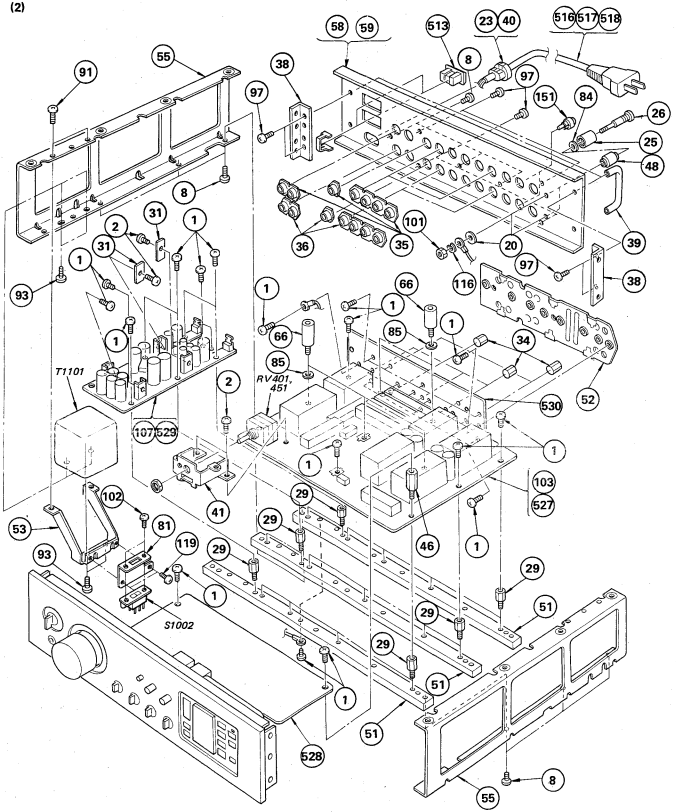
Harmonic Distortion: Less than 0.008 % (at 8 V output)
Intermodulation (IM) Distortion (60 Hz : 7 kHz = 4 : 1):
Less than 0.008 % (at 8 V output)
Frequency Response: PHONO 1,2 : RIAA equalization curve ±0.2 dB
TUNER, AUX, TAPE 1,2 : 5 Hz – 200 kHz $^{+0}_{-1}$ dB
Tone Controls: BASS : ±10 dB at 60 Hz (turnover freq. 300 Hz)
TREBLE : ±10 dB at 25 kHz (turnover freq. 5 kHz)
Filter (PHONO inputs): SUBSONIC 12 dB/octave attenuation below 15 Hz
Residual Noise: 12 μV (A weighting network, IHF)

(1)

Note: See pages 18 to 25 for these exploded views.



(2)



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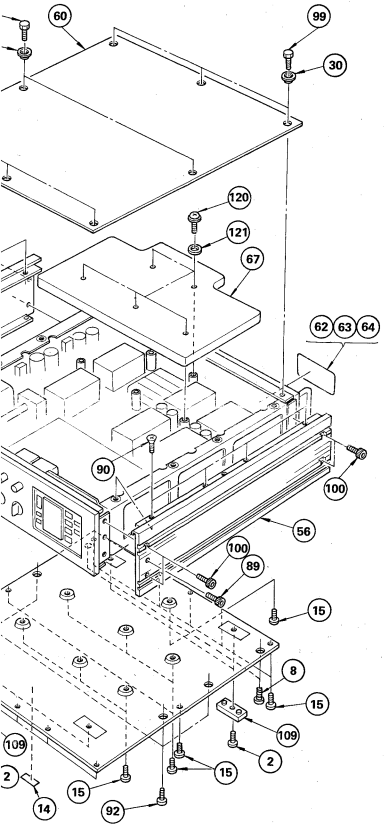
B C

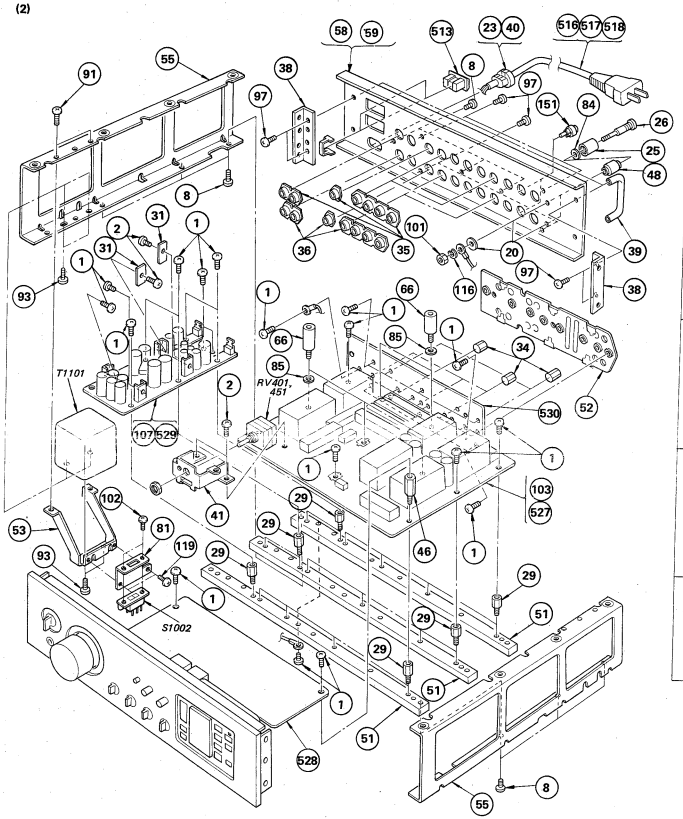
Note: See pages 18 to 25 for these exploded views.



A B C D

(2)

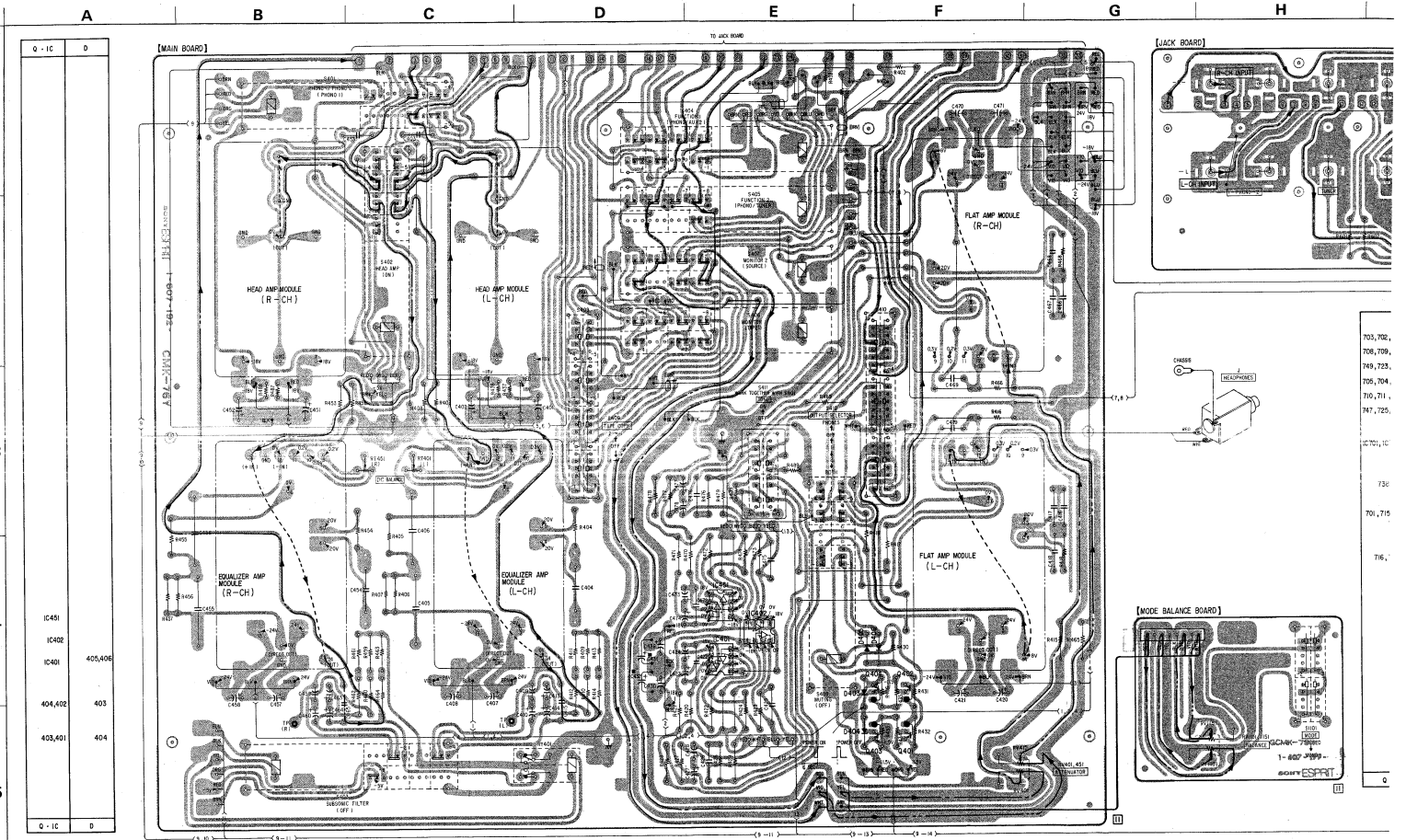
1 2 3 4



● Semiconductors Lead Layout

μPC78M18H μPC7805H IN OUT COMMON	2SA1138 2SC2676 E C B	10YG1.1 cathode anode
μPC7918H μPC7905H COMMON IN OUT	2SB772 2SD760 2SD882 letter side E C B	PB102F
μPD4001BC 1 2 3 4 5 9 8 7 6 (Top view)	2SC1364 E C B	SLP-114A cathode anode
NJM4558DFA NE5532P NE5534P line or slit or dot n+1 1 2 n (Top view)	1S1555 10E2 EQA01-12R HZ30-2L EQB01-07 cathode anode	MV203V cathode anode
2SA1027R E C B		

MOUNTING DIAGRAM



Q - IC	D
IC451	
IC402	
IC401	405,406
404,402	403
403,401	404
Q - IC	D

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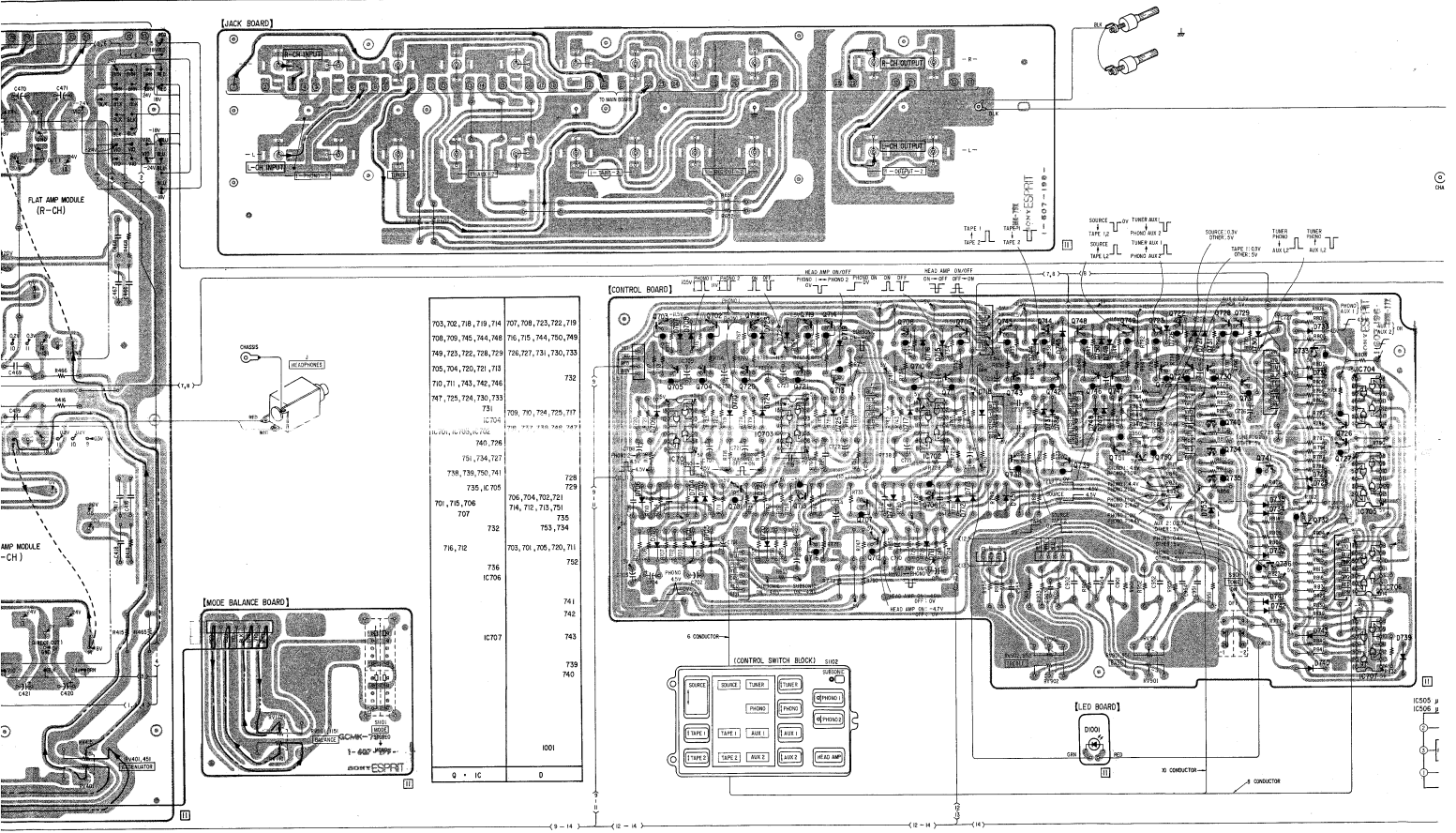
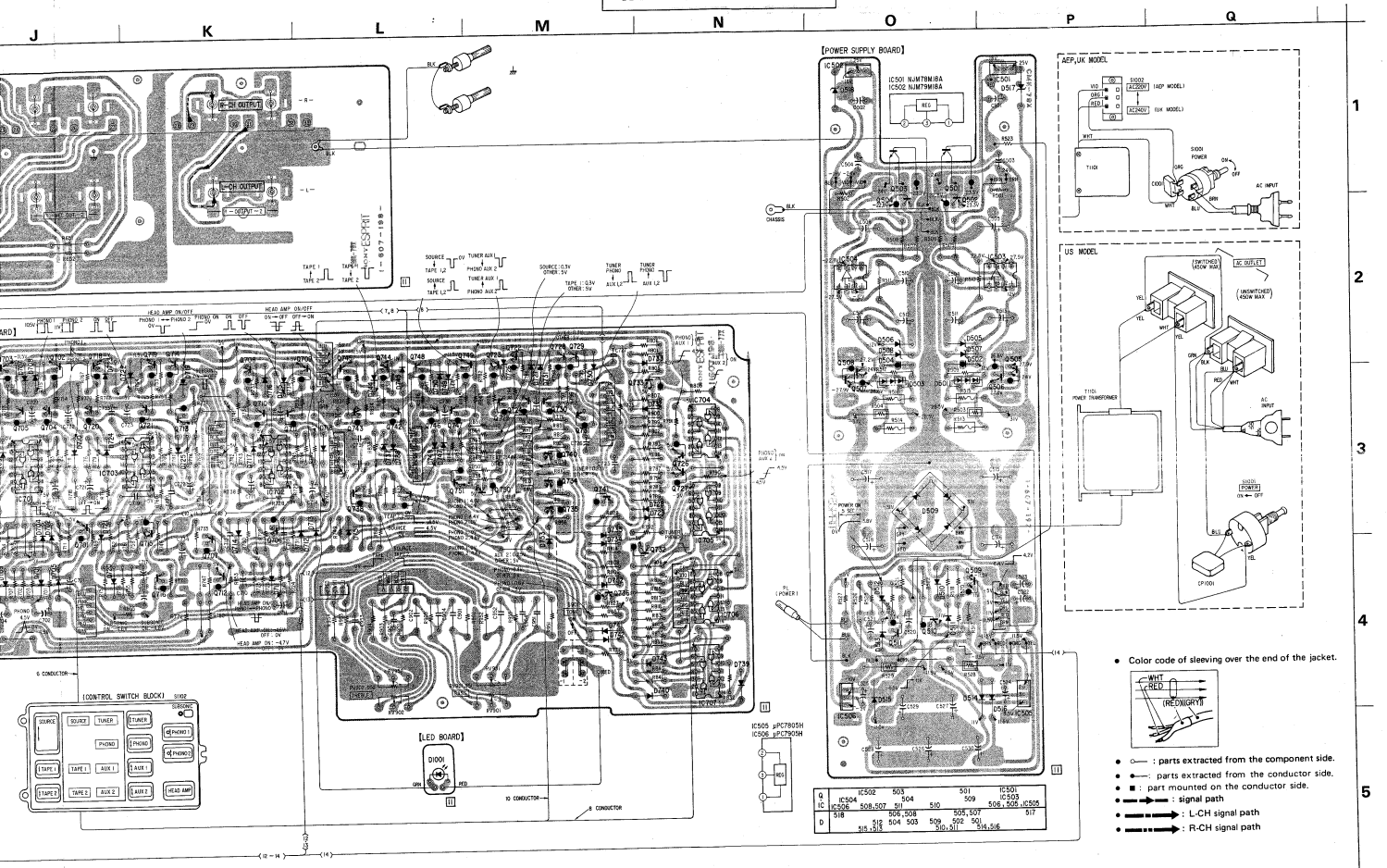
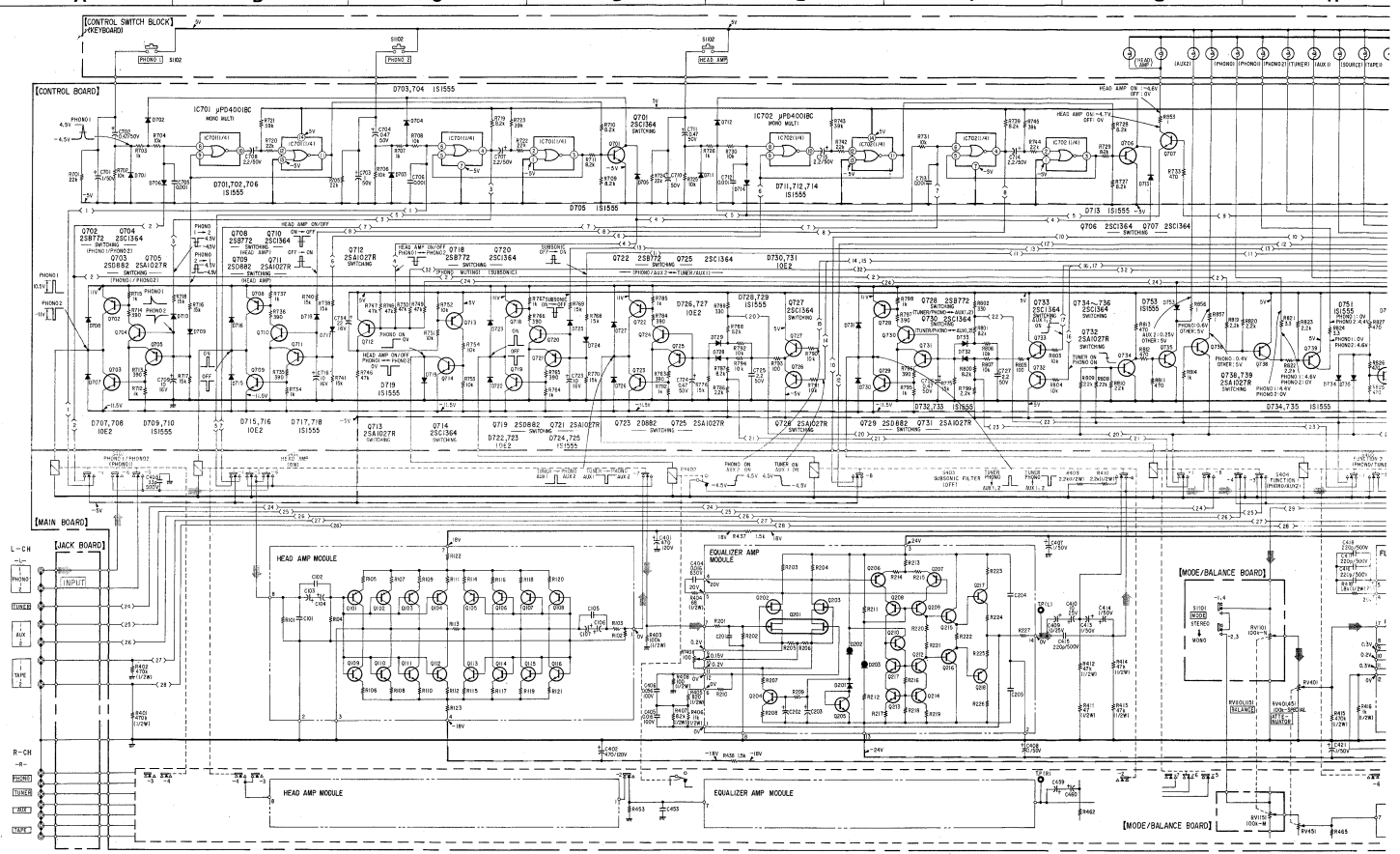
G H I J K L M N



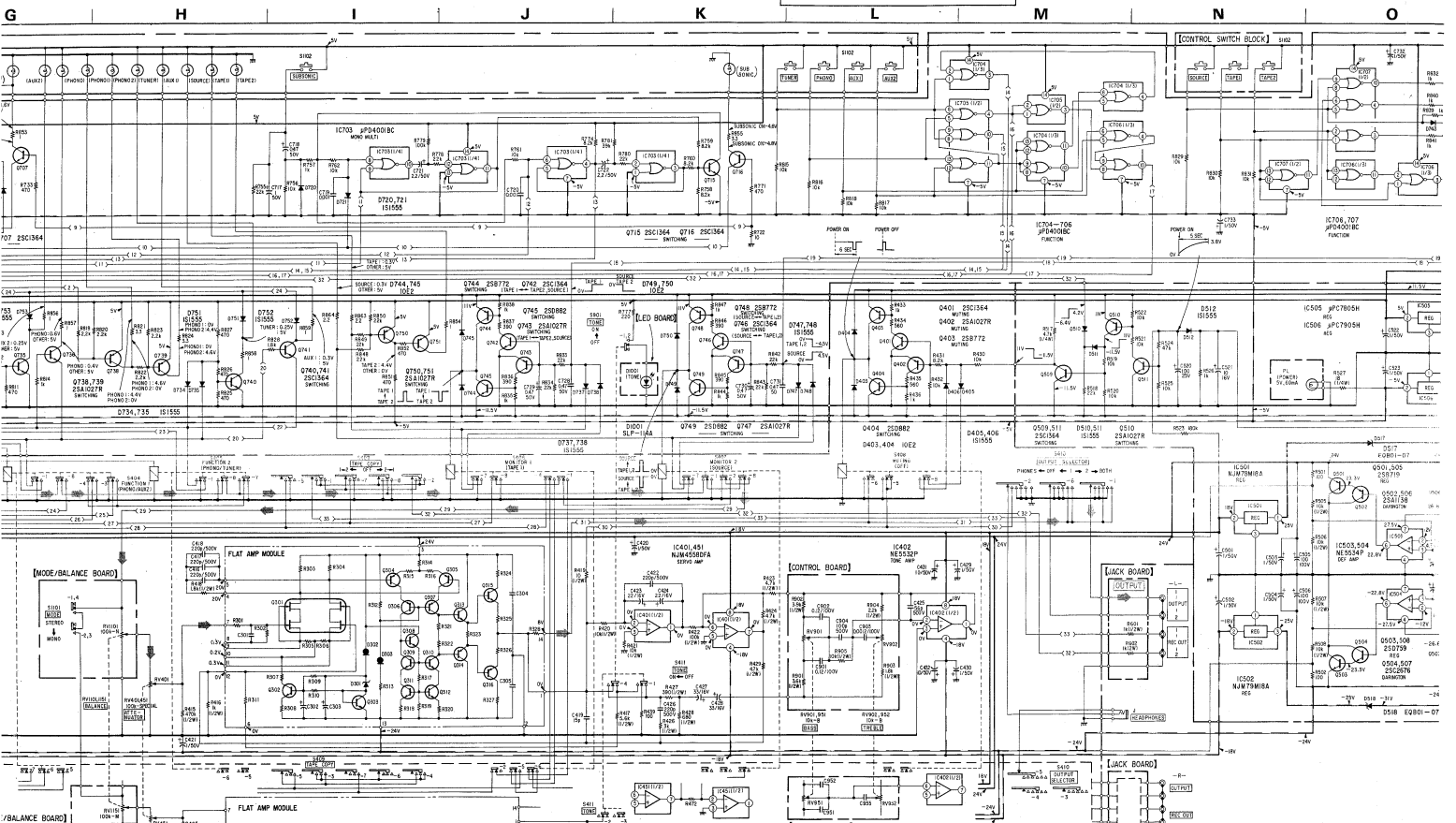
Q	IC	D
703, 702, 718, 719, 714		707, 708, 723, 722, 719
708, 709, 745, 744, 748		716, 715, 744, 750, 749
749, 723, 722, 728, 729		726, 727, 731, 730, 733
705, 704, 720, 721, 713		732
710, 711, 743, 742, 746		
747, 725, 724, 730, 733		
731	IC704	709, 710, 724, 725, 717
740, 726		
751, 734, 727		
738, 739, 750, 741		728
735	IC705	729
701, 715, 706		706, 704, 702, 721
707		714, 712, 713, 751
732		735
		753, 734
716, 712		703, 701, 705, 720, 711
736	IC706	752
		741
		742
	IC707	743
		739
		740
		1001


J
K
L
M
N
O
P
Q
1
2
3
4
5
R-CH OUTPUT
L-CH OUTPUT
[POWER SUPPLY BOARD]
IC501 NJM79M18A
IC502 NJM79M18A
AEP,UK MODEL
US MODEL
[CONTROL SWITCH BLOCK]
[LED BOARD]
IC505 μPC7805H
IC506 μPC7905H
6 CONDUCTOR
10 CONDUCTOR
8 CONDUCTOR
Color code of sleeving over the end of the jacket.
WHT
RED
(RED/HIGH)
: parts extracted from the component side.
: parts extracted from the conductor side.
: part mounted on the conductor side.
: signal path
: L-CH signal path
: R-CH signal path



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Components for right channel have same values as for left channel, Reference numbers are coded from 50



mponents identified by shading and mark critical for safety. Replace only with mber specified.

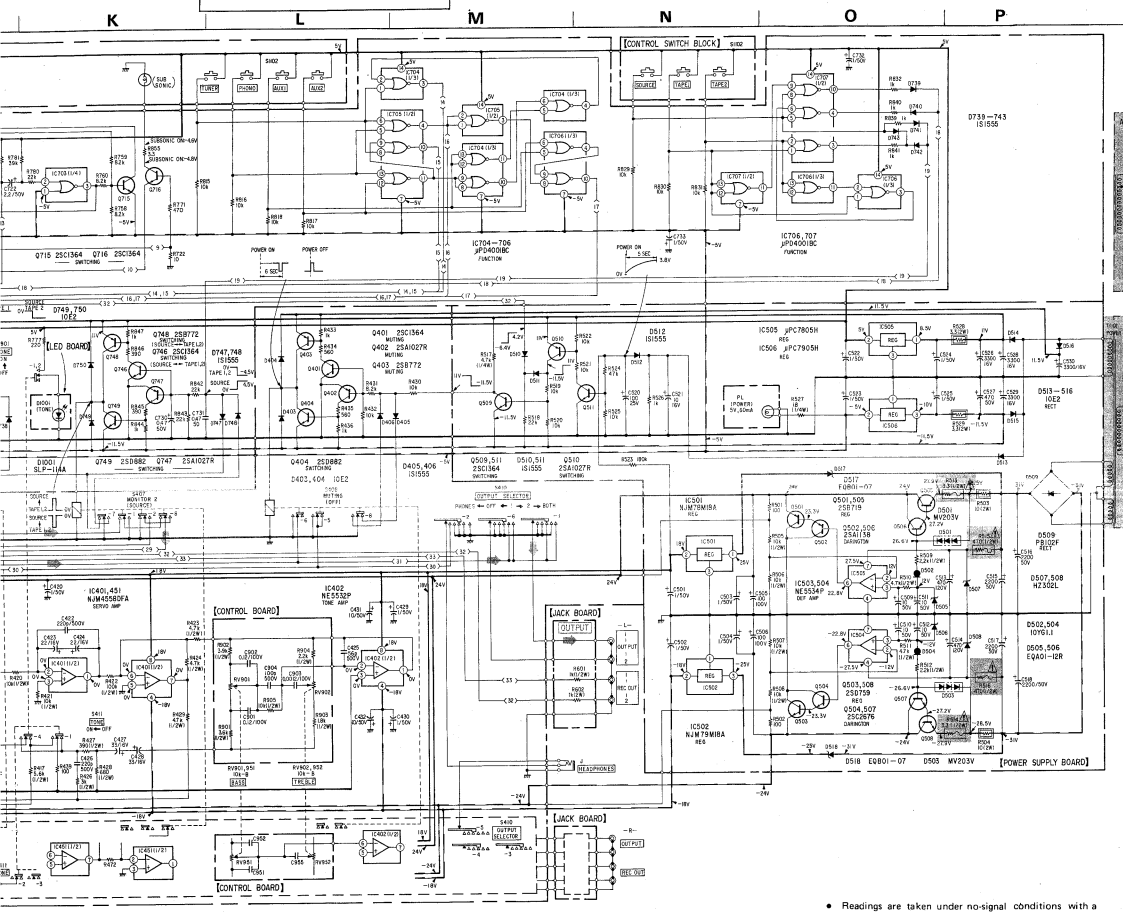
or right channel have same values as for left rence numbers are coded from 50

- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.

- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : signal path
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.

- Readings are VOM (50kΩ/
- Voltage variation tolerance

Note: Voltage



- Switch

Ref. No.	Switch	Position
S401	PHONO 1,2	PHONO 1
S402	HEAD AMP	ON
S403	SUBSONIC	OFF
S404	FUNCTION 1	PHONO/AUX a
S405	FUNCTION 2	PHONO/TUNER
S406	MONITOR 1	SOURCE/TAPE 1
S407	MONITOR 2	SOURCE
S408	MUTING	OFF
S409	TAPE COPY	OFF
S410	OUTPUT SELECTOR	1
S411	TONE	OFF
S901	TONE	OFF
S1001	POWER	OFF
S1101	MODE	STEREO
S1102	keyboard	OFF

- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : signal path
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.

- Readings are taken under no-signal conditions with a VOM (50kΩ/V)
- Voltage variations may be noted due to normal production tolerances.

Note: Voltages are measured with a VOM (50kΩ/V).

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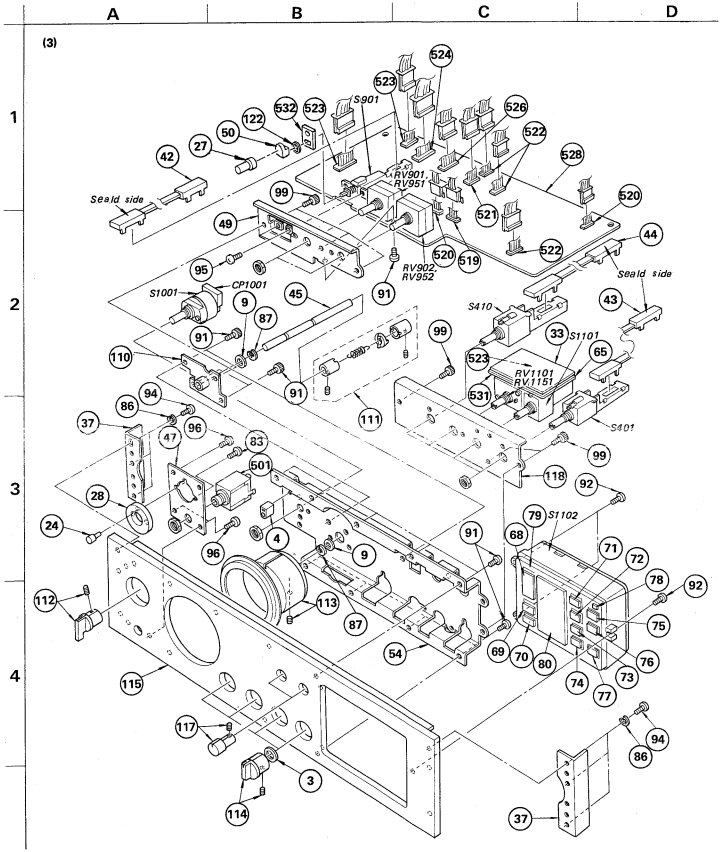


GENERAL SECTION

No.	Part No.	Description
1	2-259-121-01	SCREW, TR, 3×6
2	2-259-121-11	SCREW, TR, 3×8
3	3-533-938-00	CLOTH
4	3-534-276-11	HOLDER, LAMP
5 ♦	3-542-897-00	SHEET, INSULATING
6	3-701-030-01	(US,UK)...LABEL, SERIAL NUMBER
7	3-701-690-00	(UK)...LABEL, MADE IN JAPAN
8	3-701-429-21	SCREW, +B 3X5, PAWL
9	3-701-444-11	WASHER, 6
10	3-701-444-21	WASHER, 6
11	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
12	3-701-506-01	SET SCREW, DOUBLE POINT 3X4
13	3-701-510-00	SET SCREW, DOUBLE POINT 4X4
14	3-703-043-00	(UK)...LABEL, MAIN CAUTION
15	3-703-108-21	SCREW +BV 3X6, S TIGHT
16	3-703-112-00	(US)...GUARD, PLUG
17	3-703-114-00	(US)...LABEL, MAIN CAUTION
18	4-337-218-21	(AEP,UK)...LABEL, VOLTAGE INDICATION 220V
19	4-337-218-31	(AEP,UK)...LABEL, INDICATION, VOLTAGE 240V
20	4-801-028-00	WASHER, TERMINAL
21	4-809-246-00	(US)...LABEL, AC 120V 60Hz
22 ♦	4-835-639-00	PLATE, GROUND
23 ⚠	4-849-786-00	(AEP,UK)...STOPPER, POWER CORD
24	4-852-925-00	LENS, POWER LAMP
25	4-854-715-00	TERMINAL (A)
26 ♦	4-854-716-00	TERMINAL (B)
27	4-854-738-11	CAP, KNOB
28	4-870-204-00	ORNAMENT, SWITCH (B)
29 ♦	4-870-206-00	SUPPORT, PC BOARD
30	4-870-210-00	RING, PANEL RETAINER
31	4-870-272-00	HEAT SINK
32 ♦	4-870-273-00	HEAT SINK (E)
33 ♦	4-870-274-00	INSULATOR (B)
34 ♦	4-876-607-00	COLLAR (E), PLATE, JACK
35	4-876-628-01	ORNAMENT, JACK
36	4-876-628-11	ORNAMENT, JACK
37 ♦	4-879-905-00	ANGLE (A), FITTING, PANEL
38 ♦	4-879-906-00	ANGLE, PANEL, REAR
39 ♦	4-879-919-00	ANGLE, GUARD
40 ⚠	4-879-926-00	(US)...BUSHING, POWER CORD
41 ♦	4-882-102-00	BRACKET (B), CONTROL
42	4-882-103-00	WIRE (TONE), FLEX
43	4-882-104-00	WIRE (COPY), FLEX
44	4-882-105-00	WIRE (OUT), FLEX
45 ♦	4-882-106-00	SHAFT, CONTROL JOINT
46 ♦	4-882-108-0	
47 ♦	4-882-109-0	
48	4-882-110-0	
49 ♦	4-882-111-0	
50	4-882-112-0	
51 ♦	4-882-113-0	
52 ♦	4-882-115-0	
53 ♦	4-882-116-0	
54	4-882-117-0	
55 ♦	4-882-118-0	
56	4-882-119-0	
57	4-882-120-0	
58	4-882-122-1	
59	4-882-122-2	
60	4-882-123-0	
61 ♦	4-882-124-0	
62 ♦	4-882-126-0	
63 ♦	4-882-127-0	
64 ♦	4-882-128-0	
65 ♦	4-882-130-0	
66 ♦	4-882-136-0	
67 ♦	4-882-137-0	
68	4-882-138-0	
69	4-882-139-0	
70	4-882-140-0	
71	4-882-141-0	
72	4-882-142-0	
73	4-882-143-0	
74	4-882-144-0	
75	4-882-145-0	
76	4-882-146-0	
77	4-882-147-0	
78	4-882-148-0	
79	4-882-149-0	
80	4-882-150-0	
81 ♦	4-882-151-0	
82	7-621-759-0	
83	7-621-775-0	
84	7-623-108-0	
85	7-623-108-0	
86	7-623-212-0	
87	7-624-109-0	
88	7-626-308-0	
89	7-682-159-0	
90	7-682-247-0	

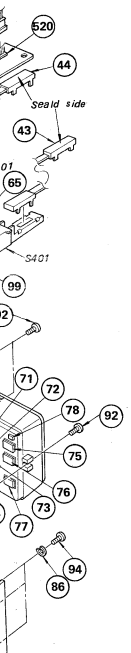
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbe MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistor are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

D



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5 ♦	3-542-897-00	SHEET, INSULATING
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17	3-703-114-00	(US)...LABEL, MAIN CAUTION
18	4-337-218-21	(AEP,UK)...LABEL, VOLTAGE INDICATION 220V
19	4-337-218-31	(AEP,UK)...LABEL, INDICATION, VOLTAGE 240V
20	4-801-028-00	WASHER, TERMINAL
21	4-809-246-00	(US)...LABEL, AC 120V 60Hz
22 ♦	4-835-639-00	PLATE, GROUND
23 ♦	4-849-796-00	(AEP,UK)...STOPPER, POWER CORD
24	4-852-925-00	LENS, POWER LAMP
25	4-854-715-00	TERMINAL (A)
26 ♦	4-854-716-00	TERMINAL (B)
27	4-854-738-11	CAP, KNOB
28	4-870-204-00	ORNAMENT, SWITCH (B)
29 ♦	4-870-206-00	SUPPORT, PC BOARD
30	4-870-216-00	RING, PANEL RETAINER
31	4-870-272-00	HEAT SINK
32 ♦	4-870-273-00	HEAT SINK (E)
33 ♦	4-870-274-00	INSULATOR (B)
34 ♦	4-876-607-00	COLLAR (E), PLATE, JACK
35	4-876-628-01	ORNAMENT, JACK
36	4-876-628-11	ORNAMENT, JACK
37 ♦	4-879-905-00	ANGLE (A), FITTING, PANEL
38 ♦	4-879-906-00	ANGLE, PANEL, REAR
39 ♦	4-879-919-00	ANGLE, GUARD
40 ♦	4-879-936-00	(US)...BUSHING, POWER CORD
41 ♦	4-882-102-00	BRACKET (B), CONTROL
42	4-882-103-00	WIRE (TONE), FLEX
43	4-882-104-00	WIRE (COPY), FLEX
44	4-882-105-00	WIRE (OUT), FLEX
45 ♦	4-882-106-00	SHAFT, CONTROL JOINT

GENERAL SECTION

No.	Part No.	Description
46 ♦	4-882-108-00	SUPPORT (D), PC BOARD
47 ♦	4-882-109-00	BRACKET, POWER ORNAMENT
48	4-882-110-00	SPACER, TERMINAL
49 ♦	4-882-111-00	BRACKET (B), SWITCH
50	4-882-112-00	LENS, KNOB
51 ♦	4-882-113-00	BAR (B), REINFORCEMENT
52 ♦	4-882-115-00	REINFORCEMENT, JACK
53 ♦	4-882-116-00	HOLDER, TRANSFORMER
54	4-882-117-00	BRACKET, CONTROL
55 ♦	4-882-118-00	PLATE (M), SIDE
56	4-882-119-00	PLATE (RIGHT), SIDE
57	4-882-120-00	PLATE (LEFT), SIDE
58	4-882-122-11	(US)...PANEL (E), REAR
59	4-882-122-22	(AEP,UK)...PANEL (E), REAR
60	4-882-123-00	PANEL, UPPER
61 ♦	4-882-124-00	PLATE (E), BOTTOM
62 ♦	4-882-126-00	(AEP)...LABEL, MODEL NUMBER
63 ♦	4-882-127-00	(UK)...LABEL, MODEL NUMBER
64 ♦	4-882-128-00	(US)...LABEL, MODEL NUMBER
65 ♦	4-882-130-00	BOARD, SHIELD
66 ♦	4-882-136-00	SUPPORT
67 ♦	4-882-137-00	PLATE, BASE, SUPPORT
68	4-882-138-00	BUTTON, KEYBOARD SWITCH (SOURCE)
69	4-882-139-00	BUTTON, KEYBOARD SWITCH (TAPE 1)
70	4-882-140-00	BUTTON, KEYBOARD SWITCH (TAPE 2)
71	4-882-141-00	BUTTON, KEYBOARD SWITCH (TUNER)
72	4-882-142-00	BUTTON, KEYBOARD SWITCH (PHONO)
73	4-882-143-00	BUTTON, KEYBOARD SWITCH (AUX 1)
74	4-882-144-00	BUTTON, KEYBOARD SWITCH (AUX 2)
75	4-882-145-00	BUTTON, KEYBOARD SWITCH (PHONO 1)
76	4-882-146-00	BUTTON, KEYBOARD SWITCH (PHONO 2)
77	4-882-147-00	BUTTON, KEYBOARD SWITCH (HEADAMP)
78	4-882-148-00	BUTTON, KEYBOARD SWITCH (SUBSONIC)
79	4-882-149-00	LABEL, SPECIFICATION
80	4-882-150-00	PLATE, SMOKED-GLASS
81 ♦	4-882-151-00	(AEP,UK)....BRACKET, SWITCH, SELECTION
82	7-621-759-40	+PSW, 2.6X6
83	7-621-775-10	SCREW +B 2.6X4
84	7-623-108-11	W 3, MIDDLE
85	7-623-108-21	W 3, LARGE
86	7-623-212-22	SW 5, TYPE 2
87	7-624-109-04	STOP RING 5.0, TYPE -E
88	7-626-308-41	SPRING-PIN 1.4X10
89	7-682-159-09	SCREW +P 4X5
90	7-682-247-09	SCREW +K 3X6

GENERAL SECTION

No.	Part No.	Description
91	7-682-547-09	SCREW +B 3X6
92	7-682-548-09	SCREW +B 3X8
93	7-682-559-09	SCREW +B 4X5
94	7-682-574-09	SCREW +B 5X8
95	7-682-647-09	SCREW +PS 3X6
96	7-682-647-09	SCREW +PS 3×6
97	7-682-664-09	SCREW +PS 4X14
98	7-682-950-09	SCREW +PSW 3X12
99	7-683-402-04	BOLT, HEXAGON SOCKET 3X5
100	7-683-421-04	BOLT, HEXAGON SOCKET 4X12
101	7-684-023-04	N 3, TYPE 2
102	7-685-647-29	(AEP,UK)....SCREW +BVTP 3X10 TYPE2 SLIT
103 ♦	A-4335-209-A	MOUNTED PCB, MAIN
104	A-4358-105-A	MODULE (B), E.Q
105	A-4375-157-A	MODULE (B), F.T
106 ♦	A-4375-159-A	MOUNTED PCB, CONTROL
107	A-4394-280-A	MOUNTED PCB, POWER
108	A-4409-586-A	MODULE (B), H.A
109	X-4852-903-0	LEG ASSY
110 ♦	X-4854-702-0	BEARING ASSY (B), CONTROL
111	X-4854-708-0	JOINT (B) ASSY
112	X-4870-208-2	KNOB ASSY
113	X-4879-102-0	KNOB ASSY, CONTROL
114	X-4882-101-0	KNOB (A) ASSY, ROUND
115	X-4882-104-0	PANEL ASSY, FRONT
116	7-623-208-22	SW3, TYPE2
117	X-4882-102-0	KNOB ASSY, TONE
118	4-882-114-00	BRACKET(A), SWITCH
119	7-685-950-09	(AEP, UK).....SCREW +BVTP 3X5
120	7-682-951-09	SCREW, +PSW 3X14
121	7-683-108-21	WASHER 3, LARGE
122	7-688-004-01	WASHER

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	1-506-113-00	SHORT PLUG
152	3-701-616-00	BAG, POLYETHYLENE
153	3-701-623-00	BAG, POLYETHYLENE
154	3-701-630-00	BAG, POLYETHYLENE
155	3-783-914-11	MANUAL, INSTRUCTION
156	3-795-421-10	MANUAL, TECHNICAL
157	4-879-136-00	PANEL, SIDE
158	4-882-132-00	SHEET, PROTECTION (SIDE PANEL)
159	4-882-133-00	BAG, PROTECTION
160	4-882-134-00	CUSHION (FRONT)
161	4-882-135-00	CUSHION (REAR)
162	4-882-131-00	CARTON
163	7-721-130-20	WRENCH, HEX KEY, 0.3mm
164	3-795-420-00	INSTRUCTION, SIDE PANEL

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CAPACITORS:
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MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

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GENERAL SECTION

No.	Part No.	Description
91	7-682-547-09	SCREW +B 3X6
92	7-682-548-09	SCREW +B 3X8
93	7-682-559-09	SCREW +B 4X5
94	7-682-574-09	SCREW +B 5X8
95	7-682-647-09	SCREW +PS 3X6
96	7-682-647-09	SCREW +PS 3X6
97	7-682-664-09	SCREW +PS 4X14
98	7-682-950-09	SCREW +PSW 3X12
99	7-683-402-04	BOLT, HEXAGON SOCKET 3X5
100	7-683-421-04	BOLT, HEXAGON SOCKET 4X12
101	7-684-023-04	N 3, TYPE 2
102	7-685-647-29	(AEP,UK)....SCREW +BVTP 3X10 TYPE2 SLIT
103	⚠A-4335-209-A	MOUNTED PCB, MAIN
104	A-4358-105-A	MODULE (B), E-Q
105	A-4375-157-A	MODULE (B), F-T
106	⚠A-4375-159-A	MOUNTED PCB, CONTROL
107	A-4394-280-A	MOUNTED PCB, POWER
108	A-4409-586-A	MODULE (B), H-A
109	X-4852-903-0	LEG ASSY
110	⚠X-4854-702-0	BEARING ASSY (B), CONTROL
111	X-4854-708-0	JOINT (B) ASSY
112	X-4870-208-2	KNOB ASSY
113	X-4879-102-0	KNOB ASSY, CONTROL
114	X-4882-101-0	KNOB (A) ASSY, ROUND
115	X-4882-104-0	PANEL ASSY, FRONT
116	7-623-208-22	SW3, TYPE2
117	X-4882-102-0	KNOB ASSY, TONE
118	4-682-114-00	BRACKET(A), SWITCH
119	7-685-750-09	(AEP, UK).....SCREW +BVTP 3X5
120	7-682-951-09	SCREW, +PSW 3X14
121	7-685-108-21	WASHER A, LARGE
122	7-688-004-01	WASHER

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	1-506-113-00	SHORT PLUG
152	3-701-616-00	BAG, POLYETHYLENE
153	3-701-623-00	BAG, POLYETHYLENE
154	3-701-630-00	BAG, POLYETHYLENE
155	3-783-914-11	MANUAL, INSTRUCTION
156	3-795-421-10	MANUAL, TECHNICAL
157	4-879-136-00	PANEL, SIDE
158	4-882-132-00	SHEET, PROTECTION (SIDE PANEL)
159	4-882-133-00	BAG, PROTECTION
160	4-882-134-00	CUSHION (FRONT)
161	4-882-135-00	CUSHION (REAR)
162	4-882-131-00	CARTON
163	7-721-130-20	WRENCH, HEX KEY, 0.3mm
164	3-795-420-00	INSTRUCTION, SIDE PANEL

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-507-507-00	JACK
502	1-507-567-00	JACK, PIN 1P
503	⚠1-508-808-00	14MM BASE POST
504	⚠1-508-809-00	BASE POST (14MM) 2P
505	⚠1-508-810-00	14MM BASE POST
506	⚠1-508-811-00	BASE POST (14MM) 4P
507	⚠1-508-813-00	14MM BASE POST
508	⚠1-508-814-00	14MM BASE POST
509	⚠1-508-815-00	14MM BASE POST
510	⚠1-508-821-00	17MM BASE POST
511	1-518-490-00	LAMP, PILOT
512	1-518-503-00	LAMP, PILOT
513	⚠1-526-609-23	(US)...OUTLET, AC
514	⚠1-535-149-11	WIRE (30.0MM)
515	⚠1-535-364-00	PIN, RAPPING
516	⚠1-558-701-00	(US)...CORD, POWER
517	⚠1-555-795-00	(AEP)...CORD, POWER
518	⚠1-556-035-00	(UK)...CORD, POWER
519	⚠1-560-061-00	PIN, CONNECTOR 3P
520	⚠1-560-062-00	PIN, CONNECTOR 4P
521	⚠1-560-063-00	PIN, CONNECTOR 5P
522	⚠1-560-064-00	PIN, CONNECTOR 6P
523	⚠1-560-065-00	PIN, CONNECTOR 8P
524	⚠1-560-066-00	PIN, CONNECTOR 10P
526	⚠1-560-338-00	PIN, CONNECTOR 7P
527	⚠1-607-192-00	PC BOARD, MAIN
528	⚠1-607-196-00	PC BOARD, CONTROL
529	⚠1-607-197-00	PC BOARD, POWER
530	⚠1-607-198-00	PC BOARD, JACK
531	⚠1-607-199-00	PC BOARD, MODE BALANCE
532	⚠1-607-200-00	PC BOARD, LED

C101	1-107-310-00	MICA	220PF	5%	500V
C102	1-130-301-00	FILM	0.015MF	5%	100V
C103	1-131-395-00	TANTALUM	100MF	20%	3.15V
C104	1-131-395-00	TANTALUM	100MF	20%	3.15V
C105	1-107-310-00	MICA	220PF	5%	500V
C106	1-131-522-00	TANTALUM	10MF	20%	25V
C107	1-131-522-00	TANTALUM	10MF	20%	25V
C201	1-107-165-00	MICA	56PF	5%	500V
C202	1-123-330-00	ELECT	22MF	20%	10V
C203	1-123-330-00	ELECT	22MF	20%	10V
C204	1-107-310-00	MICA	220PF	5%	500V
C205	1-107-310-00	MICA	220PF	5%	500V
C301	1-107-309-00	MICA	100PF	5%	500V
C302	1-123-330-00	ELECT	22MF	20%	10V
C303	1-123-330-00	ELECT	22MF	20%	10V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C304	1-107-310-00	MICA	220PF	5%	500V
C305	1-107-310-00	MICA	220PF	5%	500V
C401	1-123-624-00	ELECT	470MF	20%	120V
C402	1-123-624-00	ELECT	470MF	20%	120V
C403	1-107-317-00	MICA	33PF	5%	500V
C404	1-130-206-00	FILM	0.016MF	2%	630V
C405	1-130-720-00	FILM	0.016MF	1%	100V
C406	1-130-721-00	FILM	0.056MF	1%	100V
C407	1-131-450-00	TANTALUM	1MF	20%	35V
C408	1-131-450-00	TANTALUM	1MF	20%	35V
C409	1-131-522-00	TANTALUM	10MF	20%	25V
C410	1-131-522-00	TANTALUM	10MF	20%	25V
C413	1-131-450-00	TANTALUM	1MF	20%	35V
C414	1-131-450-00	TANTALUM	1MF	20%	35V
C415	1-107-310-00	MICA	220PF	5%	500V
C416	1-107-310-00	MICA	220PF	5%	500V
C417	1-107-310-00	MICA	220PF	5%	500V
C418	1-107-310-00	MICA	220PF	5%	500V
C419	1-107-206-00	MICA	15PF	5%	500V
C420	1-131-450-00	TANTALUM	1MF	20%	35V
C421	1-131-450-00	TANTALUM	1MF	20%	35V
C422	1-107-310-00	MICA	220PF	5%	500V
C423	1-131-520-00	TANTALUM	22MF	20%	16V
C424	1-131-520-00	TANTALUM	22MF	20%	16V
C425	1-107-165-00	MICA	56PF	5%	500V
C426	1-107-310-00	MICA	220PF	5%	500V
C427	1-123-318-00	ELECT	33MF	20%	16V
C428	1-123-318-00	ELECT	33MF	20%	16V
C429	1-131-450-00	TANTALUM	1MF	20%	35V
C430	1-131-450-00	TANTALUM	1MF	20%	35V
C451	1-123-624-00	ELECT	470MF	20%	120V
C453	1-107-317-00	MICA	33PF	5%	500V
C454	1-130-206-00	FILM	0.016MF	2%	630V
C455	1-130-720-00	FILM	0.016MF	1%	100V
C456	1-130-721-00	FILM	0.056MF	1%	100V
C457	1-131-450-00	TANTALUM	1MF	20%	35V
C458	1-131-450-00	TANTALUM	1MF	20%	35V
C459	1-131-522-00	TANTALUM	10MF	20%	25V
C460	1-131-522-00	TANTALUM	10MF	20%	25V
C463	1-131-450-00	TANTALUM	1MF	20%	35V
C464	1-131-450-00	TANTALUM	1MF	20%	35V
C465	1-107-310-00	MICA	220PF	5%	500V
C466	1-107-310-00	MICA	220PF	5%	500V
C467	1-107-310-00	MICA	220PF	5%	500V
C468	1-107-310-00	MICA	220PF	5%	500V

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ELECTRICAL PARTS

Ref.No.	Part No.	Description		
C469	1-107-206-00	MICA	15PF	5% 500V
C470	1-131-450-00	TANTALUM	1MF	20% 35V
C471	1-131-450-00	TANTALUM	1MF	20% 35V
C472	1-107-310-00	MICA	220PF	5% 500V
C473	1-131-520-00	TANTALUM	22MF	20% 16V
C474	1-131-520-00	TANTALUM	22MF	20% 16V
C475	1-107-165-00	MICA	56PF	5% 500V
C476	1-107-310-00	MICA	220PF	5% 500V
C477	1-123-318-00	ELECT	33MF	20% 16V
C478	1-123-318-00	ELECT	33MF	20% 16V
C501	1-124-047-00	ELECT	1MF	20% 50V
C502	1-124-047-00	ELECT	1MF	20% 50V
C503	1-131-450-00	TANTALUM	1MF	20% 35V
C504	1-131-450-00	TANTALUM	1MF	20% 35V
C505	1-125-288-00	ELECT(BLOCK)	100MF	20% 100V
C506	1-125-288-00	ELECT(BLOCK)	100MF	20% 100V
C509	1-131-522-00	TANTALUM	10MF	20% 25V
C510	1-131-522-00	TANTALUM	10MF	20% 25V
C511	1-123-356-00	ELECT	10MF	20% 50V
C512	1-123-356-00	ELECT	10MF	20% 50V
C513	1-123-624-00	ELECT	470MF	20% 120V
C514	1-123-624-00	ELECT	470MF	20% 120V
C515	1-123-895-00	ELECT	2200MF	20% 50V
C516	1-123-895-00	ELECT	2200MF	20% 50V
C517	1-123-895-00	ELECT	2200MF	20% 50V
C518	1-123-895-00	ELECT	2200MF	20% 50V
C520	1-123-333-00	ELECT	100MF	20% 25V
C521	1-123-356-00	ELECT	10MF	20% 16V
C522	1-123-380-00	ELECT	1MF	20% 50V
C523	1-123-380-00	ELECT	1MF	20% 50V
C524	1-123-380-00	ELECT	1MF	20% 50V
C525	1-123-380-00	ELECT	1MF	20% 50V
C526	1-123-326-00	ELECT	330MF	20% 16V
C527	1-123-390-00	ELECT	330MF	20% 100V
C528	1-123-326-00	ELECT	330MF	20% 16V
C529	1-123-326-00	ELECT	330MF	20% 16V
C530	1-123-326-00	ELECT	330MF	20% 16V
C701	1-123-380-00	ELECT	1MF	20% 50V
C702	1-123-379-00	ELECT	0.47MF	20% 50V
C703	1-123-380-00	ELECT	1MF	20% 50V
C704	1-123-379-00	ELECT	0.47MF	20% 50V
C705	1-161-323-00	CERAMIC	0.001MF	10% 50V
C706	1-161-323-00	CERAMIC	0.001MF	10% 50V
C707	1-123-381-00	ELECT	2.2MF	20% 50V
C708	1-123-381-00	ELECT	2.2MF	20% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
C709	1-123-356-00	ELECT	10MF	20% 16V
C710	1-123-380-00	ELECT	1MF	20% 50V
C711	1-123-379-00	ELECT	0.47MF	20% 50V
C712	1-161-323-00	CERAMIC	0.001MF	10% 50V
C713	1-161-323-00	CERAMIC	0.001MF	10% 50V
C714	1-123-381-00	ELECT	2.2MF	20% 50V
C715	1-123-381-00	ELECT	2.2MF	20% 50V
C716	1-123-356-00	ELECT	10MF	20% 16V
C717	1-123-380-00	ELECT	1MF	20% 50V
C718	1-123-379-00	ELECT	0.47MF	20% 50V
C719	1-161-323-00	CERAMIC	0.001MF	10% 50V
C720	1-161-323-00	CERAMIC	0.001MF	10% 50V
C721	1-123-381-00	ELECT	2.2MF	20% 50V
C722	1-123-381-00	ELECT	2.2MF	20% 50V
C723	1-123-356-00	ELECT	10MF	20% 16V
C724	1-123-379-00	ELECT	0.47MF	20% 50V
C725	1-123-230-00	ELECT	2.2MF	20% 50V
C726	1-123-379-00	ELECT	0.47MF	20% 50V
C727	1-123-230-00	ELECT	2.2MF	20% 50V
C728	1-124-049-00	ELECT	0.47MF	20% 50V
C729	1-123-379-00	ELECT	0.47MF	20% 50V
C730	1-123-379-00	ELECT	0.47MF	20% 50V
C731	1-124-049-00	ELECT	0.47MF	20% 50V
C732	1-123-380-00	ELECT	1MF	20% 50V
C733	1-123-380-00	ELECT	1MF	20% 50V
C734	1-123-330-00	ELECT	22MF	20% 16V
C901	1-130-323-00	FILM	0.12MF	5% 100V
C902	1-130-323-00	FILM	0.12MF	5% 100V
C903	1-130-275-00	FILM	0.0012MF	5% 100V
C904	1-107-309-00	MICA	100PF	5% 500V
C951	1-130-323-00	FILM	0.12MF	5% 100V
C952	1-130-323-00	FILM	0.12MF	5% 100V
C953	1-130-275-00	FILM	0.0012MF	5% 100V
C954	1-107-309-00	MICA	100PF	5% 500V
[illegible]	[illegible]	(AAP,UK),2-CAP, FILM 0.022MF 250V		
[illegible]	[illegible]	(US),...(...CAP,INSULATED COMPONENT		
		...0.022U+150,125VAC		
D401	8-719-815-55	DIODE 1S1555		
D402	8-719-815-55	DIODE 1S1555		
D403	8-719-200-02	DIODE 10E2		
D404	8-719-200-02	DIODE 10E2		
D405	8-719-815-55	DIODE 1S1555		
D406	8-719-815-55	DIODE 1S1555		
D501	8-719-920-30	DIODE MV-203V		
D502	8-719-201-11	DIODE 10YG1.1		
D503	8-719-920-30	DIODE MV-203V		

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D504	8-719-201-11	DIODE 10YG1.1
D505	8-719-936-12	DIODE EQA01-12R
D506	8-719-936-12	DIODE EQA01-12R
D507	8-719-913-02	DIODE HZ30-2L
D508	8-719-913-02	DIODE HZ30-2L
D509	8-719-211-02	DIODE PB102F
D510	8-719-815-55	DIODE 1S1555
D511	8-719-815-55	DIODE 1S1555
D512	8-719-815-55	DIODE 1S1555
D513	8-719-200-02	DIODE 10E2
D514	8-719-200-02	DIODE 10E2
D515	8-719-200-02	DIODE 10E2
D516	8-719-200-02	DIODE 10E2
D517	8-719-931-07	DIODE EQA01-07
D518	8-719-931-07	DIODE EQA01-07
D701	8-719-815-55	DIODE 1S1555
D702	8-719-815-55	DIODE 1S1555
D703	8-719-815-55	DIODE 1S1555
D704	8-719-815-55	DIODE 1S1555
D705	8-719-815-55	DIODE 1S1555
D706	8-719-815-55	DIODE 1S1555
D707	8-719-200-02	DIODE 10E2
D708	8-719-200-02	DIODE 10E2
D709	8-719-815-55	DIODE 1S1555
D710	8-719-815-55	DIODE 1S1555
D711	8-719-815-55	DIODE 1S1555
D712	8-719-815-55	DIODE 1S1555
D713	8-719-815-55	DIODE 1S1555
D714	8-719-815-55	DIODE 1S1555
D715	8-719-200-02	DIODE 10E2
D716	8-719-200-02	DIODE 10E2
D717	8-719-815-55	DIODE 1S1555
D718	8-719-815-55	DIODE 1S1555
D719	8-719-815-55	DIODE 1S1555
D720	8-719-815-55	DIODE 1S1555
D721	8-719-815-55	DIODE 1S1555
D722	8-719-200-02	DIODE 10E2
D723	8-719-200-02	DIODE 10E2
D724	8-719-815-55	DIODE 1S1555
D725	8-719-815-55	DIODE 1S1555
D726	8-719-200-02	DIODE 10E2
D727	8-719-200-02	DIODE 10E2
D728	8-719-815-55	DIODE 1S1555
D729	8-719-815-55	DIODE 1S1555
D730	8-719-200-02	DIODE 10E2

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D731	8-719-200-02	DIODE 10E2
D732	8-719-815-55	DIODE 1S1555
D733	8-719-815-55	DIODE 1S1555
D734	8-719-815-55	DIODE 1S1555
D735	8-719-815-55	DIODE 1S1555
D736	8-719-200-02	DIODE 10E2
D737	8-719-815-55	DIODE 1S1555
D738	8-719-815-55	DIODE 1S1555
D739	8-719-815-55	DIODE 1S1555
D740	8-719-815-55	DIODE 1S1555
D741	8-719-815-55	DIODE 1S1555
D742	8-719-815-55	DIODE 1S1555
D743	8-719-815-55	DIODE 1S1555
D744	8-719-200-02	DIODE 10E2
D745	8-719-200-02	DIODE 10E2
D746	8-719-200-02	DIODE 10E2
D747	8-719-815-55	DIODE 1S1555
D748	8-719-815-55	DIODE 1S1555
D749	8-719-200-02	DIODE 10E2
D750	8-719-200-02	DIODE 10E2
D751	8-719-815-55	DIODE 1S1555
D752	8-719-815-55	DIODE 1S1555
D753	8-719-815-55	DIODE 1S1555
D1001	8-719-921-14	DIODE SLP-114A
IC401	8-759-700-58	IC NJM4558DFA
IC402	8-759-900-72	IC NE5532P
IC451	8-759-700-58	IC NJM4558DFA
IC501	8-759-170-18	IC UPC78M18H
IC502	8-759-179-18	IC UPC7918H
IC503	8-759-905-42	IC NE5534P
IC504	8-759-905-42	IC NE5534P
IC505	8-759-171-05	IC UPC7805H
IC506	8-759-179-05	IC UPC7905H
IC701	8-759-140-01	IC UPD4001BC
IC702	8-759-140-01	IC UPD4001BC
IC703	8-759-140-01	IC UPD4001BC
IC704	8-759-140-01	IC UPD4001BC
IC705	8-759-140-01	IC UPD4001BC
IC706	8-759-140-01	IC UPD4001BC
IC707	8-759-140-01	IC UPD4001BC
PL	1-518-313-00	LAMP, PILOT
Q401	8-729-663-47	TRANSISTOR 2SC1364
Q402	8-729-612-77	TRANSISTOR 2SA1027R
Q403	8-729-177-23	TRANSISTOR 2SB772

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CAPACITORS:
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RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q404	8-729-188-23	TRANSISTOR 2SD882
Q501	8-729-372-02	TRANSISTOR 2SB720
Q502	8-729-113-82	TRANSISTOR 2SA1138
Q503	8-729-376-02	TRANSISTOR 2SD760
Q504	8-729-167-62	TRANSISTOR 2SC2676
Q505	8-729-372-02	TRANSISTOR 2SB720
Q506	8-729-113-82	TRANSISTOR 2SA1138
Q507	8-729-167-62	TRANSISTOR 2SC2676
Q508	8-729-376-02	TRANSISTOR 2SD760
Q509	8-729-663-47	TRANSISTOR 2SC1364
Q510	8-729-612-77	TRANSISTOR 2SA1027R
Q511	8-729-663-47	TRANSISTOR 2SC1364
Q701	8-729-663-47	TRANSISTOR 2SC1364
Q702	8-729-177-23	TRANSISTOR 2SB772
Q703	8-729-188-23	TRANSISTOR 2SD882
Q704	8-729-663-47	TRANSISTOR 2SC1364
Q705	8-729-612-77	TRANSISTOR 2SA1027R
Q706	8-729-663-47	TRANSISTOR 2SC1364
Q707	8-729-663-47	TRANSISTOR 2SC1364
Q708	8-729-177-23	TRANSISTOR 2SB772
Q709	8-729-188-23	TRANSISTOR 2SD882
Q710	8-729-663-47	TRANSISTOR 2SC1364
Q711	8-729-612-77	TRANSISTOR 2SA1027R
Q712	8-729-612-77	TRANSISTOR 2SA1027R
Q713	8-729-612-77	TRANSISTOR 2SA1027R
Q714	8-729-663-47	TRANSISTOR 2SC1364
Q715	8-729-663-47	TRANSISTOR 2SC1364
Q716	8-729-663-47	TRANSISTOR 2SC1364
Q717	8-729-612-77	TRANSISTOR 2SA1027R
Q718	8-729-177-23	TRANSISTOR 2SB772
Q719	8-729-188-23	TRANSISTOR 2SD882
Q720	8-729-663-47	TRANSISTOR 2SC1364
Q721	8-729-612-77	TRANSISTOR 2SA1027R
Q722	8-729-177-23	TRANSISTOR 2SB772
Q723	8-729-188-23	TRANSISTOR 2SD882
Q724	8-729-663-47	TRANSISTOR 2SC1364
Q725	8-729-612-77	TRANSISTOR 2SA1027R
Q726	8-729-612-77	TRANSISTOR 2SA1027R
Q727	8-729-663-47	TRANSISTOR 2SC1364
Q728	8-729-177-23	TRANSISTOR 2SB772
Q729	8-729-188-23	TRANSISTOR 2SD882
Q730	8-729-663-47	TRANSISTOR 2SC1364
Q731	8-729-612-77	TRANSISTOR 2SA1027R
Q732	8-729-612-77	TRANSISTOR 2SA1027R
Q733	8-729-663-47	TRANSISTOR 2SC1364

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q734	8-729-663-47	TRANSISTOR 2SC1364
Q735	8-729-663-47	TRANSISTOR 2SC1364
Q736	8-729-663-47	TRANSISTOR 2SC1364
Q737	8-729-612-77	TRANSISTOR 2SA1027R
Q738	8-729-612-77	TRANSISTOR 2SA1027R
Q739	8-729-612-77	TRANSISTOR 2SA1027R
Q740	8-729-663-47	TRANSISTOR 2SC1364
Q741	8-729-663-47	TRANSISTOR 2SC1364
Q742	8-729-663-47	TRANSISTOR 2SC1364
Q743	8-729-612-77	TRANSISTOR 2SA1027R
Q745	8-729-188-23	TRANSISTOR 2SD882
Q746	8-729-663-47	TRANSISTOR 2SC1364
Q747	8-729-612-77	TRANSISTOR 2SA1027R
Q748	8-729-177-23	TRANSISTOR 2SB772
Q749	8-729-188-23	TRANSISTOR 2SD882
Q750	8-729-612-77	TRANSISTOR 2SA1027R
Q751	8-729-612-77	TRANSISTOR 2SA1027R

R101	1-214-864-00	METAL	1K	1%	1/2W
R102	1-214-897-00	METAL	22K	1%	1/2W
R103	1-214-816-00	METAL	10	1%	1/2W
R104	1-214-856-00	METAL	470	1%	1/2W
R105	1-214-816-00	METAL	10	1%	1/2W
R106	1-214-816-00	METAL	10	1%	1/2W
R107	1-214-816-00	METAL	10	1%	1/2W
R108	1-214-816-00	METAL	10	1%	1/2W
R109	1-214-816-00	METAL	10	1%	1/2W
R110	1-214-816-00	METAL	10	1%	1/2W
R111	1-214-816-00	METAL	10	1%	1/2W
R112	1-214-816-00	METAL	10	1%	1/2W
R113	1-214-848-00	METAL	220	1%	1/2W
R114	1-214-816-00	METAL	10	1%	1/2W
R115	1-214-816-00	METAL	10	1%	1/2W
R116	1-214-816-00	METAL	10	1%	1/2W
R117	1-214-816-00	METAL	10	1%	1/2W
R118	1-214-816-00	METAL	10	1%	1/2W
R119	1-214-816-00	METAL	10	1%	1/2W
R120	1-214-816-00	METAL	10	1%	1/2W
R121	1-214-816-00	METAL	10	1%	1/2W
R122	1-214-864-00	METAL	1K	1%	1/2W
R123	1-214-864-00	METAL	1K	1%	1/2W
R201	1-214-816-00	METAL	10	1%	1/2W
R202	1-214-913-00	METAL	100K	1%	1/2W
R203	1-214-854-00	METAL	390	1%	1/2W
R204	1-214-854-00	METAL	390	1%	1/2W

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- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R205	1-214-822-00	METAL	18	1%	1/2W
R206	1-214-822-00	METAL	18	1%	1/2W
R207	1-214-840-00	METAL	100	1%	1/2W
R208	1-214-855-00	METAL	430	1%	1/2W
R209	1-214-840-00	METAL	100	1%	1/2W
R210	1-214-907-00	METAL	56K	1%	1/2W
R211	1-214-880-00	METAL	4.7K	1%	1/2W
R212	1-214-888-00	METAL	10K	1%	1/2W
R213	1-214-874-00	METAL	2.7K	1%	1/2W
R214	1-214-864-00	METAL	1K	1%	1/2W
R215	1-214-864-00	METAL	1K	1%	1/2W
R216	1-214-892-00	METAL	15K	1%	1/2W
R217	1-214-874-00	METAL	2.7K	1%	1/2W
R218	1-214-892-00	METAL	15K	1%	1/2W
R219	1-214-874-00	METAL	2.7K	1%	1/2W
R220	1-214-880-00	METAL	4.7K	1%	1/2W
R221	1-214-880-00	METAL	4.7K	1%	1/2W
R222	1-214-886-00	METAL	8.2K	1%	1/2W
R223	1-214-822-00	METAL	18	1%	1/2W
R224	1-214-822-00	METAL	18	1%	1/2W
R225	1-214-822-00	METAL	18	1%	1/2W
R226	1-214-822-00	METAL	18	1%	1/2W
R227	1-214-840-00	METAL	100	1%	1/2W
R301	1-214-840-00	METAL	100	1%	1/2W
R302	1-214-913-00	METAL	100K	1%	1/2W
R303	1-214-874-00	METAL	2.7K	1%	1/2W
R304	1-214-874-00	METAL	2.7K	1%	1/2W
R305	1-214-840-00	METAL	100	1%	1/2W
R306	1-214-840-00	METAL	100	1%	1/2W
R307	1-214-862-00	METAL	820	1%	1/2W
R308	1-214-868-00	METAL	1.5K	1%	1/2W
R309	1-214-888-00	METAL	10K	1%	1/2W
R310	1-214-888-00	METAL	10K	1%	1/2W
R311	1-214-871-00	METAL	2K	1%	1/2W
R312	1-214-880-00	METAL	4.7K	1%	1/2W
R313	1-214-888-00	METAL	10K	1%	1/2W
R314	1-214-874-00	METAL	2.7K	1%	1/2W
R315	1-214-864-00	METAL	1K	1%	1/2W
R316	1-214-864-00	METAL	1K	1%	1/2W
R317	1-214-892-00	METAL	15K	1%	1/2W
R318	1-214-874-00	METAL	2.7K	1%	1/2W
R319	1-214-892-00	METAL	15K	1%	1/2W
R320	1-214-874-00	METAL	2.7K	1%	1/2W
R321	1-214-880-00	METAL	4.7K	1%	1/2W
R322	1-214-880-00	METAL	4.7K	1%	1/2W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R323	1-214-886-00	METAL	8.2K	1%	1/2W
R324	1-214-822-00	METAL	18	1%	1/2W
R325	1-214-822-00	METAL	18	1%	1/2W
R326	1-214-822-00	METAL	18	1%	1/2W
R327	1-214-822-00	METAL	18	1%	1/2W
R328	1-214-840-00	METAL	100	1%	1/2W
R401	1-214-929-00	METAL	470K	1%	1/2W
R402	1-214-929-00	METAL	470K	1%	1/2W
R403	1-214-913-00	METAL	100K	1%	1/2W
R404	1-214-836-00	METAL	68	1%	1/2W
R405	1-214-862-00	METAL	820	1%	1/2W
R406	1-214-889-00	METAL	11K	1%	1/2W
R407	1-214-886-00	METAL	8.2K	1%	1/2W
R408	1-214-840-00	METAL	100	1%	1/2W
R409	1-214-872-00	METAL	2.2K	1%	1/2W
R410	1-214-872-00	METAL	2.2K	1%	1/2W
R411	1-214-905-00	METAL	47K	1%	1/2W
R412	1-214-905-00	METAL	47K	1%	1/2W
R413	1-214-905-00	METAL	47K	1%	1/2W
R414	1-214-905-00	METAL	47K	1%	1/2W
R415	1-214-929-00	METAL	470K	1%	1/2W
R416	1-214-864-00	METAL	1K	1%	1/2W
R417	1-214-882-00	METAL	5.6K	1%	1/2W
R418	1-214-870-00	METAL	1.8K	1%	1/2W
R419	1-214-816-00	METAL	10	1%	1/2W
R420	1-214-888-00	METAL	10K	1%	1/2W
R421	1-214-888-00	METAL	10K	1%	1/2W
R422	1-214-913-00	METAL	100K	1%	1/2W
R423	1-214-880-00	METAL	4.7K	1%	1/2W
R424	1-214-880-00	METAL	4.7K	1%	1/2W
R426	1-214-875-00	METAL	3K	1%	1/2W
R427	1-214-854-00	METAL	390	1%	1/2W
R428	1-214-860-00	METAL	680	1%	1/2W
R429	1-214-880-00	METAL	4.7K	1%	1/2W
R437	1-214-136-00	METAL	1.5K	1%	1/4W
R438	1-214-136-00	METAL	1.5K	1%	1/4W
R439	1-214-108-00	METAL	100	1%	1/4W
R451	1-214-929-00	METAL	470K	1%	1/2W
R452	1-214-929-00	METAL	470K	1%	1/2W
R453	1-214-913-00	METAL	100K	1%	1/2W
R454	1-214-836-00	METAL	68	1%	1/2W
R455	1-214-862-00	METAL	820	1%	1/2W
R456	1-214-889-00	METAL	11K	1%	1/2W
R457	1-214-886-00	METAL	8.2K	1%	1/2W
R458	1-214-840-00	METAL	100	1%	1/2W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R459	1-214-872-00	METAL	2.2K	1%	1/2W	
R460	1-214-872-00	METAL	2.2K	1%	1/2W	
R461	1-214-905-00	METAL	47K	1%	1/2W	
R462	1-214-905-00	METAL	47K	1%	1/2W	
R463	1-214-905-00	METAL	47K	1%	1/2W	
R464	1-214-905-00	METAL	47K	1%	1/2W	
R465	1-214-929-00	METAL	470K	1%	1/2W	
R466	1-214-864-00	METAL	1K	1%	1/2W	
R467	1-214-882-00	METAL	5.6K	1%	1/2W	
R468	1-214-870-00	METAL	1.8K	1%	1/2W	
R469	1-214-816-00	METAL	10	1%	1/2W	
R470	1-214-888-00	METAL	10K	1%	1/2W	
R471	1-214-888-00	METAL	10K	1%	1/2W	
R472	1-214-913-00	METAL	100K	1%	1/2W	
R473	1-214-880-00	METAL	4.7K	1%	1/2W	
R474	1-214-880-00	METAL	4.7K	1%	1/2W	
R476	1-214-875-00	METAL	3K	1%	1/2W	
R477	1-214-854-00	METAL	390	1%	1/2W	
R478	1-214-860-00	METAL	680	1%	1/2W	
R479	1-214-880-00	METAL	4.7K	1%	1/2W	
R487	1-214-136-00	METAL	1.5K	1%	1/4W	
R488	1-214-136-00	METAL	1.5K	1%	1/4W	
R489	1-214-108-00	METAL	100	1%	1/4W	
R501	1-214-108-00	METAL	100	1%	1/4W	
R502	1-214-108-00	METAL	100	1%	1/4W	
R503	1-206-463-00	METAL	10	5%	2W	F
R504	1-206-463-00	METAL	10	5%	2W	F
R505	1-214-888-00	METAL	10K	1%	1/2W	
R506	1-214-888-00	METAL	10K	1%	1/2W	
R507	1-214-888-00	METAL	10K	1%	1/2W	
R508	1-214-888-00	METAL	10K	1%	1/2W	
R509	1-214-872-00	METAL	2.2K	1%	1/2W	
R511	1-214-880-00	METAL	4.7K	1%	1/2W	
R512	1-214-872-00	METAL	2.2K	1%	1/2W	
R513	1-212-946-00	FUSIBLE	3.3	5%	1/2W	F
R514	1-212-946-00	FUSIBLE	3.3	5%	1/2W	F
R515	1-212-998-00	FUSIBLE	470	5%	1/2W	F
R516	1-212-998-00	FUSIBLE	470	5%	1/2W	F
R528	1-206-458-00	METAL	6.2	5%	2W	F
R529	1-206-458-00	METAL	6.2	5%	2W	F
R601	1-214-864-00	METAL	1K	1%	1/2W	
R602	1-214-864-00	METAL	1K	1%	1/2W	
R651	1-214-864-00	METAL	1K	1%	1/2W	
R652	1-214-864-00	METAL	1K	1%	1/2W	
R901	1-214-877-00	METAL	3.6K	1%	1/2W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R902	1-214-878-00	METAL	3.9K	1%	1/2W
R903	1-214-870-00	METAL	1.8K	1%	1/2W
R904	1-214-872-00	METAL	2.2K	1%	1/2W
R905	1-214-888-00	METAL	10K	1%	1/2W
R951	1-214-877-00	METAL	3.6K	1%	1/2W
R952	1-214-878-00	METAL	3.9K	1%	1/2W
R953	1-214-870-00	METAL	1.8K	1%	1/2W
R954	1-214-872-00	METAL	2.2K	1%	1/2W
R955	1-214-888-00	METAL	10K	1%	1/2W
RT401	1-224-247-XX	RES, ADJ, METAL GLAZE 100			
RT451	1-224-247-XX	RES, ADJ, METAL GLAZE 100			
RV401	1-228-605-00	RES, VAR, CARBON 100K/100K			
RV451	1-228-605-00	RES, VAR, CARBON 100K/100K			
RV901	1-228-606-00	RES, VAR, CARBON 10K/10K			
RV902	1-228-606-00	RES, VAR, CARBON 10K/10K			
RV951	1-228-606-00	RES, VAR, CARBON 10K/10K			
RV952	1-228-606-00	RES, VAR, CARBON 10K/10K			
RV1101	1-228-604-00	RES, VAR, CARBON 100K/100K			
RY401	1-515-323-00	RELAY			
S401	1-554-096-00	SWITCH, SLIDE (WITH PLUNGER)			
S402	1-554-097-00	SWITCH, SLIDE (WITH PLUNGER)			
S403	1-554-096-00	SWITCH, SLIDE (WITH PLUNGER)			
S404	1-554-096-00	SWITCH, SLIDE (WITH PLUNGER)			
S405	1-554-096-00	SWITCH, SLIDE (WITH PLUNGER)			
S406	1-554-097-00	SWITCH, SLIDE (WITH PLUNGER)			
S407	1-554-097-00	SWITCH, SLIDE (WITH PLUNGER)			
S408	1-554-097-00	SWITCH, SLIDE (WITH PLUNGER)			
S409	1-554-093-00	SWITCH, SLIDE (REMOTE TYPE)			
S410	1-554-094-00	SWITCH, SLIDE (REMOTE TYPE)			
S411	1-554-095-00	SWITCH, SLIDE (REMOTE TYPE)			
S901	1-554-092-00	SWITCH, PUSH (REMOTE TYPE)			
S1001	1-552-974-00	(US)..... SWITCH, AC			
S1001	1-552-974-00	(AEP,UK)..SWITCH, AC			
S1002	1-552-975-00	(AEP,UK)..SWITCH, SLIDE			
S1101	1-554-089-00	SWITCH, ROTARY SLIDE			
S1102	1-554-116-00	SWITCH, KEY BOARD			
T1001	1-447-674-00	(US)..... TRANSFORMER, POWER			
T1001	1-447-676-00	(AEP,UK)..TRANSFORMER, POWER			

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC···, UPD···: μPD···

TA-E901

SUPPLEMENT

US Model

File this supplement with the service manual.

No. 1
March, 1983

◎SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

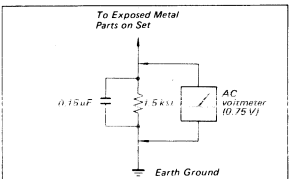

Fig. A. Using an AC voltmeter to check AC leakage.

◎The following parts have been added as the safety-related components.

C505	⚠	1-125-288-00	ELECT (BLOCK)	100	MF	20% 100V
C506	⚠	1-125-288-00	ELECT (BLOCK)	100	MF	20% 100V
C515	⚠	1-123-895-00	ELECT	2200	MF	20% 50V
C516	⚠	1-123-895-00	ELECT	2200	MF	20% 50V
C517	⚠	1-123-895-00	ELECT	2200	MF	20% 50V
C518	⚠	1-123-895-00	ELECT	2200	MF	20% 50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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